DENVER

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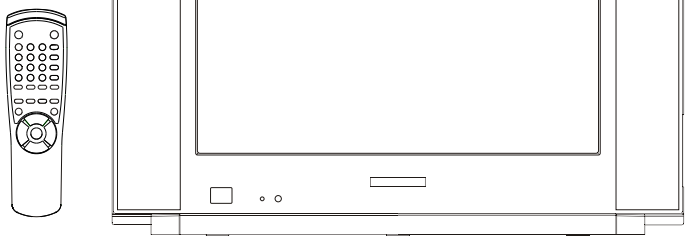
21" COLOUR TELEVISION

- ON SCREEN DISPLAY
- REMOTE CONTROL
- HYPERBAND TUNER
- PERITELEVISION(SCART JACK)
- NTSC PLAYBACK
- TELETEXT



CE

DTX-2110
MANUAL

Remarks:

Customer please confirm all the artwork within 2-3 days. After your confirmation, the factory needs 10-15 days to complete the production. Please be noted that late artwork confirmation will cause shipment delay accordingly.

Description: MANUAL	
Job No. 3B099M	Brand Name: DENVER
Model: 21NI	P/No.
Revised:1	Scale:
Engineering Dept:	
Artwork By:	Date: 12-02-03
Checked By:	Date:
Approved By:	Date:

3Y

SPECIFICATIONS

Receiving System	: BG
Colour System	: PAL / NTSC Playback
Picture Tube	: 54cm (21") diagonal
Ext. Antenna	: 75 Ohm Coaxial Cable
Ext. In/Out	: Peritelevision(Scart Jack)
Speaker	: 16 Ohm x 2
Audio Output	: > 3W
Power Consumption	: AC 180-240V 50/60Hz, 80W
Dimension	: 602(W) x 488(D) x 457(H)mm
Net Weight	: 22 kg

REMOTE CONTROL

Transmitting System	: Infrared
Power Supply	: DC 3V (1.5 x 2)
Dimension	: 55(W) x 184(L) x 34(D)mm
Net Weight	: 130 g

Design and specifications are subject to change without prior notice.

SPECIFICATIONS

Thank you very much for your purchase of this product-the most natural Colour Television Receiver.

To enjoy your set to the full from the very beginning, read this manual carefully and keep it handy for ready reference.

INSTALLATION

- Locate the receiver in the room where direct light does not strike the screen.

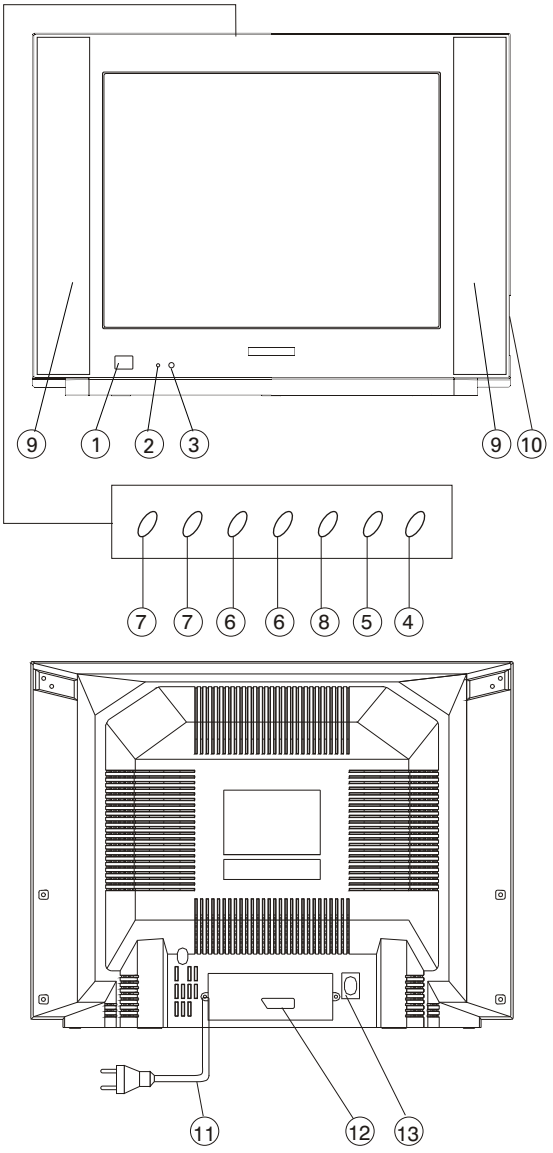
  Total darkness or a reflection on the picture screen can cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.
- Allow enough space between the receiver and the wall to permit ventilation.
- Avoid excessively warm locations to prevent possible damage to the cabinet or premature component failure.
- This TV receiver can be connected to AC 180-240 Volts. 50/60 Hz. Never connect to DC supply or any other power supply.
- Do not install the receiver in a location near heat sources such as radiator, air ducts, direct sunlight, or in a place somewhere like close compartment and close area.
- Do not cover the ventilation openings when using the set.

CAUTION

Never tamper with any components inside your set, or any other adjustment controls not mentioned in this manual. All television receivers are high voltage instruments. Your PICTURE TUBE is highly evacuation. If broken, glass fragments will be violently expelled. Scratching, chipping or undue pressure is dangerous and should be avoided. When you clean up dust or stick of a water drop on the PICTURE TUBE FACE or CABINET, the power cord should be pulled out from the plug receptacle, then wipe the receiver with dried soft cloth. During thunder and lighting, unplug the power cord and antenna cord to prevent your TV set from damage. All "inside work" on your receiver should be performed only by the TV service personnel.

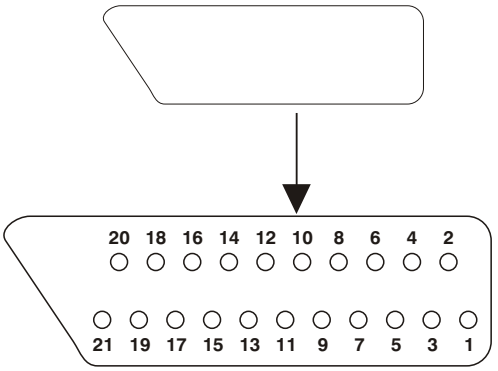
CONTROL LOCATION

1. Main Switch
2. Power Indicator
3. Remote Sensor
4. AV/TV
5. Mute Button
6. Volume Down & Up Button
7. Program Down & Up Button
8. Menu Button
9. Speakers
10. Side AV in(Option)
11. AC Power Cord
12. Peritelevision (Scart Jack)
13. Terminal Antenna (75 Ohm)



INPUT AND OUTPUT TERMINALS

1. Audio Out
   Right channel Audio out
2. Audio In
   Right channel Audio in
3. Audio Out
   Left channel Audio out
4. Ground "Audio"
5. Ground of luminance signal "Blue"
6. Audio In
   Left channel Audio in
7. Luminance signal input "Blue"
8. Video switching voltage
9. Ground of luminance signal "Green"
10. No Connection
11. Luminance signal input "Green"
12. No Connection
13. Ground of luminance signal "Red"
14. Ground
15. Luminance signal input "Red
16. R.G.B. switching voltage
17. Ground "Video"
18. Ground of switching input
19. Video Out
20. Video In
21. Ground chassis



It can be connected to the following appliances: video-tape recorder, video camera, tape recorder and audio amplifier, etc.....
*Please keep AC cord unplugged when connecting TV system.

OPERATION INSTRUCTIONS

Turn the TV set on, then power indicator will light up. Press the program up or down button on the TV set,or press the on/off button on the remote control.The picture will appear after a few seconds . (If tuned on) The program number is displayed on the top right-hand corner of the screen.

MENU BUTTON

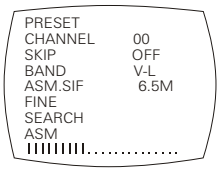
1.Press this button to select menu. PRESET, PICTURE, SYSTEM ,and TIME menu can be selected cyclically.

Preset Menu → Picture Menu → System Menu → Time Menu → Exit Menu

2.After enters each menu, you can select the item which you will adjust by PROG.+/- buttons, and adjust this item by VOL. +/- buttons.

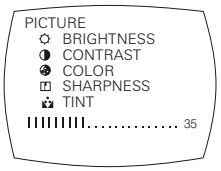
*The item which you select will change blue.

Preset menu



1. CHANNEL
In this item, you can store the channel number which are watching, and change the channel number by VOL.+/- Buttons (or number keys).
2. SKIP
You can set "ON" by VOL.+/- Buttons if you want to cancel the channel number which you are watching.
3. BAND
You can select V-L, V-H or UHF.
4. ASM.SIF
You can select 6.0M, 4.5M, 6.5M or 5.5M.
5. FINE
To tune in weak station this item must be used.
6. SEARCH
Press VOL.+/- Buttons to start searching. The VOL- button searches for lower-numbered channels; the VOL+ button for higher-numbered channels. When a TV station signal is received ,the searching will stop.
7. ASM
Press VOL.+/- Buttons, then the TV set will automatically search from V-L band to U band.

Picture menu

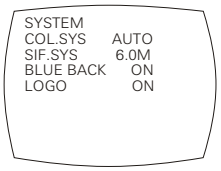


You can select BRIGHTNESS, CONTRAST, COLOR, SHARPNESS, and TINT item by PROG.+/- Buttons , and adjust the item which you select by VOL.+/- Buttons.

*TINT is displayed only for NTSC and is not available for PAL or SECAM.

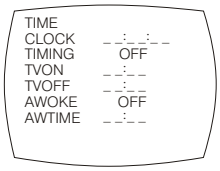
OPERATION INSTRUCTIONS

System menu



1. COL.SYS
You can change present color system in this item.
2. SIF.SYS
You can change present sound system in this item.
3.BLUE BACK
Blue back function can be opened by setting this item ON.
4.LOGO
You can see the brand logo as you turn the Tv set on ,by setting this item ON..

Time menu



1. CLOCK
You can adjust the currently time by this item. Press the VOL+button set hour , and the VOL-button set minute .
2. TIMING
If you set the item is TIMING ON , you can set the time of TV ON and TV OFF .
3.TV ON
Set the time when the TV set turn on .
4.TV OFF
Set the time when the TV set turn off .
5.AWOKE
Selecting AWOKE ON , you can set the AWTIME item.
6.AWTIME
Set the awake time that you want . If you set the AWTIME is 12:00, The CATCH TIME11:58:00 will display on the screen for awaking you .It will disappear from the screen until CATCH TIME 12:00:00 .

SELECTING PROGRAM

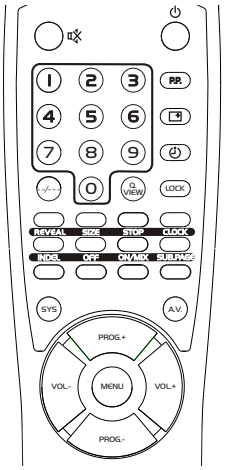
Use 0-9 digit buttons to call directly on the program number that you want. If you want to select a double digits program number , firstly press "-/--" button, then input the two digits.
Program number can also be changed by "PROGRAM DOWN" and "PROGRAM UP" buttons. Press "PROGRAM UP" button, program number will increase. Press "PROGRAM DOWN" button, program number will decrease.

CHILD LOCKED

The TV set can provide the locked key for control or prevent your children from watching the program.

SET CHILD LOCKED:
Press the "LOCK" button on remote unit.The key locked ( ) is displayed on the screen. Then the symbol will disappear after five seconds and enter child locked mode. You can't use any key on the TV set.
RELEASE CHILD LOCKED:
You can cancel this mode by pressing the 'LOCK" button again.

LOCATION OF CONTROL (REMOTE HANDSET UNIT)



POWER (STAND BY) BUTTON (⏻)

Press this button to turn the TV on/off. Press any Number Button or Program Up/Down Button, picture and sound will come on within a few seconds.

MUTE BUTTON ( )

Press once to mute the sound, press again to return to previously set sound level.

SOUND SYSTEM BUTTON (SYS)

Press this button to select the correct sound system.

5.5M → 6.0M → 4.5M → 6.5M

PROGRAM SELECTION BUTTONS (0-9, -/--)

Push the number for your desired program and the program indicator will be displayed on the screen.
Press -/-- key to select one digit or two digit entry, to select program 0-9, use one digit entry, to select 10-99 use two digits entry.
Press number key 0-99 for program selection.
Press the number keys to select teletext pages in teletext mode.

PROGRAM UP/DOWN BUTTON (PROG +/-)

Press the Program Up Button to select the program forwards.

Press the Program Down Button to select the program backwards.

(Use this button for Page Up/Down to increase/decrease page number in TELETEXT mode.)

LOCATION OF CONTROL (REMOTE HANDSET UNIT)

VOLUME UP/DOWN BUTTONS (VOL+/-)
Press Volume Up/Down Buttons to adjust sound level.

PERSONAL PRESETS BUTTON (P.P.)
You can select DYNAMIC, MILD, COLORFUL, STANDARD and CUSTOM by pressing this button.

RECALL BUTTON( )
Press this button sequentially to recall for the program number, color system and sound system on the screen.

SLEEP BUTTON( )
This key is used to set the sleep timer in 15 minutes step up to two hours. When the preset time runs to 0. TV set will go into stand by mode. To switch off this function, press this key step by step until " --" is displayed on the screen.

LOCK BUTTON
The key is to prevent a child watching the TV, please refer to page 5 for the details.

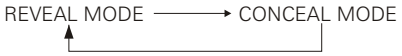
QUICK VIEW BUTTON (Q.VIEW)
Press this button to return to the previously viewed program.

A.V. BUTTON
Press this button to display external video signal such as VCR or CD video player. AV will be displayed on the screen. Press this button again to switch back to TV signal from AV.

MENU BUTTON (MENU)
Use "MENU" button for tuning procedure, please refer to page 4-5 for the details.

LOCATION OF CONTROL (REMOTE HANDSET UNIT)(TELETEXT OPTION)

REVEAL (OPTION)
Display hidden characters. Press this button repeatedly to switch between "CONCEAL MODE" and "REVEAL MODE"



Conceal mode will always be resumed when any of the teletext key is pressed except "REVEAL" key.

SIZE (OPTION)
The top or bottom half of any page can be enlarged teletext character size to double height by pressing this button.

STOP (OPTION)
Stop page acquisition on current page to prevent text to be updated.

CLOCK(OPTION)
Display the time on the top right corner of the screen.

INDEX (OPTION)
INDEX page or P100 will be requested.

OFF and ON/MIX BUTTON (OPTION)
You can select the following modes by pressing these buttons.

SUBPAGE BUTTON (SUBPAGE) (OPTION)
Page number may contain several subpages which are automatically paged in a certain cycle by the TV station. Press this button once. "0001" will by displayed on screen, enter number key (0-9) to look for other subpages if available. If these is no subpage, "****" will be displayed. To cancel this, press this button again.

COLOR BUTTONS (RED, GREEN, YELLOW, BLUE)(OPTION)
In teletext mode, the same color page number which is on the bottom of screen will respond to pressing these color keys.

*The above buttons are applicable only to Teletext models.

BATTERY INSTALLATION (REMOTE CONTROL UNIT)

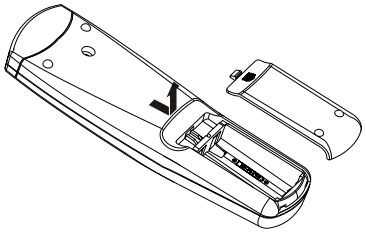
1. Remove the battery cover.

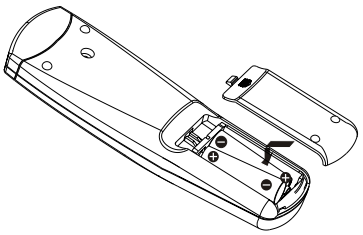
2. Insert two batteries of the 2 UM3-AA 1.5Vtype and make sure that polarity (+/-)_match the marks inside the unit.

3. Replace the battery cover.

Replace with new batteries when the TV set begins to show the following symptoms:

Operation becomes unsteady or erratic. Sometimes the TV set does not function with Remote Control Unit.





Remark:
1) Alkaline Batterie Recommended
2) Remove batteries when they are exhausted or if the remote control is not to be used for a long time.

THE CAUSES OF INTERFERENCE

Those incorporated in your TV receiver are the most up-to-date devices to eliminate interference. Local radiation however, can create disturbances which visibly affect picture. Proper installation and , a good aerial are the best safe-guards against these disturbances.

RF INTERFERENCE

Moving ripples across the screen are caused by nearby transmitting or receiving-short-wave radio equipment.

DIATHERMY

Herringbone pattern and partial picture loss can result from the operation of diathermy equipment from a nearby doctor's surgery or hospital.

SNOW

Weak TV signals from distant stations result in unsteady picture and have the effect of falling snow. An antenna adjustment or antenna amplifier may be needed.

GHOST

Multiple image caused by TV signals which are reflected back from surrounding buildings, hills, aircraft, etc. is minimized by correct aerial positioning.

CAR IGNITION

Nearby cars and electrical motors can cause small streaks across the picture or make the picture roll.

SERVICE TIPS

BEFORE CALLING FOR SERVICE, HAVE YOU CHECKED (●) THE FOLLOWING CHART ON SYMPTOMS AND SOLUTIONS?

Symptoms / Solution	Try different channel, if OK, probably station trouble	Check aerial connections on back of set	Check aerial for broken wires	Re-orient aerial (if indoor type)	Probably local interference, such as an appliance	Adjust fine tuning control	Adjust brightness control	Adjust contrast control	Check if station is broadcasting colour	Adjust colour control	Check if system switch is correct	Check if on/off switch is "on"	Check Batteries in Remote control
No picture, no sound	●	●	●			●					●	●	
Poor sound, picture OK	●			●	●	●					●		
Poor picture, sound OK	●	●	●	●	●	●	●				●		
Weak picture	●	●	●	●		●					●		
Blurred picture	●		●	●		●					●		
Double image	●	●	●	●		●							
Lines in picture	●		●	●	●	●							
Distorted picture	●		●	●		●					●		
Weak reception on some channels	●	●	●	●	●	●					●		
Horizontal bars			●	●	●								
Picture rolls vertically	●		●	●	●						●		
Poor colour	●	●	●	●	●	●	●	●		●	●		
No colour	●	●	●	●		●			●	●	●		
Misoperation of Remote control													●
No Remote control													●
On Screen Display Control outside the screen											●		

CE

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